

NEW

High stability, High accuracy, Low ripple noise

Ultimate bi-polar power supply for exclusive use of the electromagnet

- ▶ Maximum output voltage : ± 10 V to ± 120 V
- ▶ Maximum output current : ± 10 A to ± 100 A
- ▶ Maximum output power : 600 W to 2.4 kW

DOD series



DOD series

High-performance
bi-polar power supply
for exclusive use of
the electromagnet



DOD series is the ultra-low ripple noise bi-polar power supply for exclusive use of the electromagnet. From the wide lineup (the range of output current; ± 10 A to ± 100 A), the most suitable model for the characteristic of your electromagnet can be chosen. Special attention has been paid to design the internal circuits of the power supply to be symmetrically placed, which helps to reduce great amount of common mode noise, in spite of the amazing small footprint of the equipment. DOD series is the most suitable power supply as a high-stability and low noise current supply source to an electromagnet.

Features

Wide lineup

You can choose the most suitable model from the wide lineup of up to ± 120 V from ± 10 V.

The display of DC output voltage and current value

DC output voltage and current value is displayed on 3.5-digit digital meter on the front panel.

Compact and light weight

DOD series is designed to pursue possible smallest footprint and light weigh, results in user's great space-saving.

Useful protection function

Protections such as for overvoltage, overcurrent, output short circuit, cooling fan error and power failure are standardly equipped to DOD series.

Digital control

Digital control via LAN (Ethernet) is available. (Ethernet is the registered trademark of Xerox Corporation.)

Lineup

★Please feel free to ask us about the specifications except the list below.

Model	Output			Input			
	Voltage(V)	Current(A)	Power	Standard		-L(400 V)option	
				Voltage	Current(@200 V)	Voltage	Current(@400 V)
DOD10-100	±10	±100	1 kW	AC200 V to 240 V ±10% 3-phase	6 A typ	AC400 V ±10 % 3-phase	3 A typ
DOD20-30	±20	±30	600 W		5 A typ		
DOD40-30	±40	±30	1.2 kW		6 A typ		
DOD60-20	±60	±20	1.2 kW				
DOD80-10	±80	±10	800 W				
DOD120-20	±120	±20	2.4 kW		12 A typ		6 A typ

Specifications

External control voltage (Icon-in)	-10 V to +10 V	Status Output	Overvoltage, overcurrent, output short circuit, cooling fan error
Output display	Voltage : 3.5-digit digital meter Current : 3.5-digit digital meter	Protection	Overvoltage, overcurrent, output short circuit, cooling fan error and power failure
Current ripple	50 ppm (< 2 kHz) 200 ppm (\geq 2 kHz)	Operation temperature	+10 °C to +40 °C
Stability of output current	100 ppm / H	Storage temperature	-10 °C to +60 °C
Temp. stability of output current	10 ppm / °C (-LTc optional model : 5 ppm / °C)	Humidity	20 to 80 %RH (no condensation)
Accuracy of setting	± 0.1 % Full scale Resolution ; 16-bit	Accessories	AC input cable (1) Instruction manual (1)
Output monitors	Voltage : -10 V to +10 V Current : -10 V to +10 V		

About protection function

Overvoltage protection (OVP)

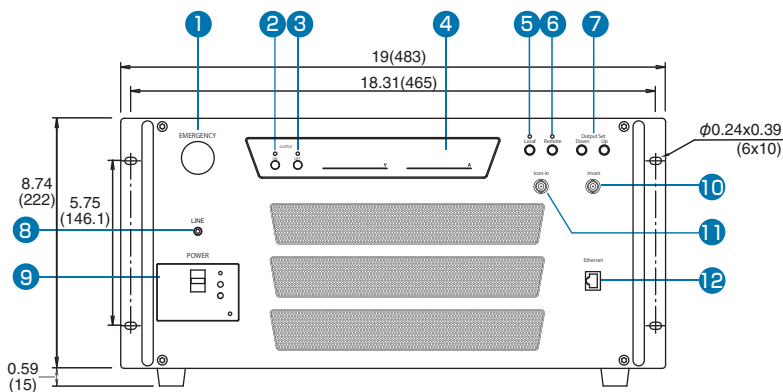
Output voltage is limited not to exceed approx. 120 % of the rated voltage in an emergency case, thus protects the load.

Overcurrent protection (OCP)

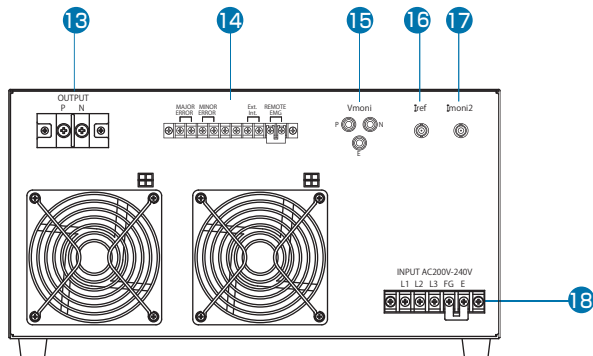
Output current is limited not to exceed approx. 120 % of the rated current in an overload case, thus protects power supply and load.

Dimensions inch(mm) / Explanation of functions

【Front】 Depth : 23.82-inch (605 mm)



【Rear】



- 1 Emergency stop button
- 2 OUTPUT ON switch
- 3 OUTPUT OFF switch
- 4 Output voltage / current meter
- 5 "Local" button
- 6 "Remote" button (control via Ethernet)
- 7 Button for setting output current
- 8 LED for displaying the state of power receiving
- 9 POWER switch
- 10 Terminal for monitoring output current
- 11 Icon-in terminal
- 12 LAN (Ethernet) connector
- 13 Output terminal
- 14 Terminal for status signal and interlock
- 15 Terminal for monitoring output voltage
- 16 Terminal for monitoring preset value of output current
- 17 Terminal 2 for monitoring output current
- 18 AC input terminal

Options

-L(400 V) ... Input Voltage 400 VAC \pm 10 % 3-phase.
Please refer to Page.2 "Lineup".

-LTc ... Temp. stability of output current ; 5 ppm / °C

-LEp ... Control by EPICS
(Experimental Physics and Industrial Control System)
When ordering, suffix the above option number to the model number.
<e.g.>DOD10-100-LEpTc(400 V)
(Alphabetical, input voltage order)



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other countries : +81-6-6150-5089

Customer Inquiry Sheet (DOD series)

Please copy this page and above fax number after filling out form below.

☐ I would like

☐ A quotation ☐ An explanation of product ☐ A demonstration ☐ To purchase

☐ Other ()

■ Give us your requirement / comment

■ Please fill in below.

Address:	
Company:	
Dept.:	Title:
Name:	
Tel:	Fax:
E-mail:	

Manufacturer warranty

We warrant the specification, unless otherwise specified, at max. rated output after warm up, and scope of application is between 10 % and 100 % of max. rated output. We warrant that products contained in this catalog (hereinafter, the "Products") are free from defects in material and workmanship under normal use for a period of one (1) year from the date of shipment thereof. However, the warranty period for X-ray detectors and X-ray source shall be either one (1) year from the date of shipment or 1,000 hours, whichever shorter. The above warranty shall not apply to any Product which, at our sole judgment, has been: i) Repaired or altered by persons unauthorized by us; or ii) Connected, installed, adjusted or used otherwise than in accordance with the instructions furnished by us (including being used in an inappropriate installation environment, such as in corrosive gas, high temperature and humidity). We are not liable for any loss, damage or failure of the Products after the shipment thereof caused by external factors such as disasters. We will not inspect, adjust or repair any of our power supply products in the field or at any customer site. If you suspect that there has been a power supply failure in the field, please inspect your whole unit by yourself in an effort to determine that the problem is, in fact, arising out of our power supply products. If it is found that the problem is arising out of such power supply product after inspection, please contact your local sales office for additional troubleshooting. A "Return Merchandise Authorization" is required in case the power supply must be sent back to the factory in Japan for inspection and repair. We, at our sole discretion repair or replace such defective products at no cost to the purchaser. We assume no liability to the purchaser or any third party for special, incidental, consequential, or other damages resulting from a breach of the foregoing warranty. This warranty excludes any and all other warranties not set forth herein, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose. The Products are not designed and produced for such applications as requiring extremely high reliability and safety, or involving human lives (such as nuclear power, aerospace, social infrastructure facility, medical equipment, etc.). The use under such environment is not covered by this warranty and may require additional design and manufacturing processes. No modification or supplement of this warranty shall be binding unless in writing and signed by a duly authorized officer of Matsusada. Matsusada reserves the right to make any changes in the contents of catalogs or specifications at any time without advance notice. Due to compelling reason such as unavailability of components used, products might be unavailable or unable to repair. The products specified in catalogs or specifications are designed for use by the person who has enough expertise or under the control of such person, and not for general consumers. Schematics of products shall not be submitted to users. Test result or test data for the products shall be available upon request with charge.

Make sure you read the specification in the latest catalog before you order. Contact nearby sales office for the latest catalog.

PLEASE SEE THE LINK BELOW FOR THE COMPLETE WARRANTY TERMS

<http://www.matsusada.com/site/warranty.html>


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